

## Day Three Training

### Weather

#### Atmosphere

1. Uneven heating and cooling due to solar radiation
2. Land masses and elevation
3. Water
4. Latitude
5. Changes in pressure

#### Pressure

#### Density altitude

1. Hot and high altitude effects
2. Pressure altitude

#### Performance

#### Wind

1. Obstructions to wind flow (Buildings, mountains)
2. UAS limitations

#### Air masses

#### Humidity

#### Temperature/dew point

#### Clouds

1. Types (Stratus, Cumulous, high altitude, low altitude)
2. Stability / instability of air masses
3. Cumulonimbus clouds and the danger they present to flying

### Weather in relationship with METAR's and TAF's

### Weather minimums for flying

3 miles visibility, 500' below and 2000' horizontally from clouds

### Night flying

#### Night limitations and illusions

#### FLIR camera and FLIR interpretation

#### FLIR videos

#### Night flying PowerPoint

---

### Practical Exercises (Flight training curriculum)

Continuing advanced flight maneuvers.